



RESOLUTION NO. U-11212

1 A RESOLUTION related to Tacoma Water; authorizing participation in a City of
2 Tacoma, Environmental Services, South West Regions Project.

3 WHEREAS the City of Tacoma, Tacoma Public Utilities, Water Division
4 ("Tacoma Water") is requesting authorization to partner with the Environmental
5 Services Department (ES) on a project to reconstruct certain existing roadways
6 and replace certain underground utilities ("Project"), and

7 WHEREAS, a part of this Project, which will be administered by ES, is to
8 replace approximately 2,300 feet of 6-inch to 16-inch existing water main,
9 constructed circa 1905 to 1955, along South Wright Avenue, from Tacoma
10 Avenue South to South "D" Street, along South 9th Street, from South Sprague
11 Avenue to South Grant Avenue, and along North Karl Johan Avenue, from 6th
12 Avenue to 600 feet Northerly, and

13 WHEREAS portions of the existing water main is over 100 years old and
14 beyond the end of its operational life, and

15 WHEREAS Tacoma Water's total cost of the Project is \$972,134.48,
16 including a 15-percent contingency, plus partner contract administration of
17 \$25,367.75, for a cumulative total of \$997,502.23, plus applicable taxes,

18 WHEREAS funding for this project is available from Tacoma Water's
19 WTR-00604-08-03, Construction Payments to ES, as is summarized in the
20 Tacoma Water-Environmental Services Joint Agreement, and

21 WHEREAS Tacoma Water believes it is in the best interest of the utility
22 and its customers to include the water main work in the Environmental Services
23 project and project partnership will improve project delivery, reduce project
24
25
26



costs, improve system reliability, and consolidate construction disturbance to residents, and

WHEREAS Tacoma Water requests authority to participate in Environmental Services, South West Regions Project, for the above purpose and reasons; Now, Therefore,

BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That Tacoma Water is authorized to participate in Environmental Services, South West Regions Project, in the amount of \$997,502.23, plus applicable taxes, and the proper officers of the City are authorized to execute any necessary agreements in a form as approved by the City Attorney.

Approved as to form:

Chair

/s/

Chief Deputy City Attorney

Secretary

Adopted

Clerk



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities
COPY: Charleen Jacobs, Director and Board Offices
FROM: Scott Dewhirst, Water Superintendent, Tacoma Water SD
Ali Polda, Principal Engineer, 253-502-8152
MEETING DATE: October 28th, 2020
DATE: October 15th, 2020

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Department of Environmental Services, South West Regions Project. Tacoma Water proposes to replace approximately 2,300 feet of 6-inch to 16-inch water main. Total project cost, including a 15 percent contingency, is \$972,134.48, plus partner contract administration of \$25,367.75, for a cumulative total of \$997,502.23, plus applicable taxes.

Tacoma Water believes it is in the best interest of the utility and its customers to include the water main work in the Environmental Services project. Project partnership will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents.

BACKGROUND:

Tacoma Water is partnering with the Environmental Services Department to reconstruct the existing roadways, replace underground utilities including approximately 2,300 feet of existing water main, constructed circa 1905 to 1955, along South Wright Ave., from Tacoma Ave South to South "D" Street, along South 9th Street, from South Sprague Ave to South Grant Ave., and along North Karl Johan Ave., from 6th Ave to 600 feet Northerly.

Project partner contributions are summarized in the Tacoma Water-Environmental Services Joint Agreement.

ISSUE: The existing water main is over 100 years old and beyond the end of its operational life.

ALTERNATIVES: Rehabilitating the existing water main is cost prohibitive. It is more cost effective to mitigate the risk of future water main breaks under a new roadway by replacing the water main with partnerships such as this.



Board Action Memorandum

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF THE ACTION REQUESTED IS APPROVAL OF A CONTRACT, INCLUDE LANGUAGE IN RESOLUTION AUTHORIZING \$200,000 INCREASE IN ADMINISTRATIVE AUTHORITY TO DIRECTOR? N/A

ATTACHMENTS: Project Map
City Manager Action Memorandum
Agreement for Joint Project Tacoma Water – Environmental Services

CONTACT: Ali Poldo, Principal Engineer, 253-502-8152
Jessica Knickerbocker, Assistant Division Manager, 253-389-8044



City of Tacoma

City Manager Action Memorandum

TO: Elizabeth A. Pauli, City Manager
FROM: Michael P. Slevin III, P.E., Environmental Services Director
John Burk, P.E., ES Science & Engineering Division Manager
Kurtis D. Kingsolver, P.E., Public Works Director/City Engineer
Shannon Wall, P.E., Tacoma Water Planning & Engineering Division Manager
COPY: City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator,
Jordan Ennis, P.E., Ali Polda, P.E., Troy Saghafi, P.E., Erik Sloan, Pavement
Manager, and Tina Eide, Senior Buyer, Finance/Purchasing
SUBJECT: Stormwater & Wastewater Sewer Replacement Project (Various Areas):
S Wright Ave, N Carr St, N Karl Johan Ave, S 9th St, N 12th St, N 26th St,
& S 53rd St
Request for Bids Specification No. ES20-0001F
DATE: October 27, 2020

Pursuant to the City of Tacoma March 12, 2020, state of emergency proclamation in response to COVID-19, made in accordance with Tacoma Municipal Code Chapter 1.10., contract awards for purchases must be approved by the City Manager or designee.

RECOMMENDATION SUMMARY:

The Environmental Services Department recommends a contract be awarded to R.L. Alia Company, Renton, WA, in the amount of \$2,434,703.50, plus a 15 percent contingency, for a project contract total of \$2,799,909.02, plus applicable taxes, budgeted from various departmental funds, to replace aging water distribution, wastewater, and surface water pipes, in addition to roadway, curb ramp, and street tree improvements at various locations in Tacoma.

STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Assure outstanding stewardship of the natural and built environment.

This project will replace aging water distribution pipes, wastewater pipes, and surface water pipes. Roadways impacted by the proposed underground utility replacement work will be restored to existing or better condition. This work support a safe city with healthy residents, and assures outstanding stewardship of the natural and build environment of these neighborhoods.

BACKGROUND:

This project will replace approximately 1,900 linear feet of surface water main, 1,100 linear feet of wastewater main, and 2,400 linear feet of water main. In partnership with the Public Works Department and Tacoma Water, this project will also include street restoration, curb ramp installation, and street tree improvements. The work will occur at the following locations: S Wright Ave, N Carr St alley, N Karl Johan Ave, S 9th St, N 12th St alley, N 26th St, and S 53rd St alley.

ISSUE: The underground wastewater, surface water, and water mains in these various locations are reaching the end of their design life and are at risk of failure.



City of Tacoma

ALTERNATIVES: Taking no action would put the City at risk of future pipe failures, which may result in untreated wastewater overflowing into the Puget Sound and/or uncontrolled discharge of surface water that can result in flooding. Pipe rehabilitation was also considered, but the mains are not in adequate condition to do so.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. ES20-0001F was opened on October 6, 2020. The project was advertised in normal publications. Ten submittals were received.

R.L. Alia Company submitted the lowest bid. The table below reflects the amount of the base award.

<u>Respondent</u>	<u>Location</u> (city and state)	<u>Submittal Amount</u>
R.L. Alia Company	Renton, WA	\$2,434,703.50
Pape & Sons Construction, Inc.	Gig Harbor, WA	\$2,466,750.00
Reed Trucking & Excavating, Inc.	Puyallup, WA	\$2,488,400.20
Rodarte Construction, Inc.	Auburn, WA	\$2,489,748.20
Northwest Cascade, Inc.	Puyallup, WA	\$2,533,760.00
Pivetta Brother's Construction, Inc.	Sumner, WA	\$2,680,121.08
Miles Resources, LLC	Puyallup, WA	\$2,738,744.25
Sound Pacific Construction, LLC	Gig Harbor, WA	\$2,777,335.00
SCI Infrastructure, LLC	SeaTac, WA	\$2,862,103.00
Pacific Civil & Infrastructure, Inc.	Sumner, WA	\$2,901,633.40

Pre-bid Estimate: \$2,962,112.00

The recommended award is approximately 18 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: Replacement of these pipes will reduce the risk of failure, thereby reducing the potential for discharge of untreated wastewater into Puget Sound and uncontrolled discharge of surface water that can result in flooding, resulting in a positive environmental impact.

EIC/LEAP COMPLIANCE: The recommended contractor is in compliance with the Equity in Contracting (EIC) Regulation requirements per memorandum dated October 14, 2020. The EIC requirements for this project are 4 percent for MBE, 6 percent for WBE, and 11 percent for SBE. The EIC utilization levels of the recommended contractor, R.L. Alia Company, are approximately 4 percent for MBE, 6 percent for WBE, and 72 percent for SBE. The Local Employment and Apprenticeship Training Program (LEAP) requirements are 15 percent.



City of Tacoma

FISCAL IMPACT:**EXPENDITURES:**

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	ENV-04022-08-04	5330100	\$403,483.37
4301 ES Surface Water Fund	ENV-03031-06-04	5330100	\$963,079.40
1085 PW Streets Initiative Fund	PWK-00438-28-03	5330100	\$461,211.77
Tacoma Water Bond Fund	WTR-00604-01-08	5330100	\$972,134.48
TOTAL			Up to \$2,799,909.02

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	523900	Rate Revenues	\$403,483.37
4301 ES Surface Water Fund	521900	Rate Revenues	\$963,079.40
Streets Initiative Revenues	663020	Revenues	\$461,211.77
4600-13WC Water Bond Fund	586313	6311163	\$972,134.48
TOTAL			\$2,799,909.02

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$2,799,909.02, plus applicable sales tax.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes.

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A.

APPROVED

Elizabeth A. Pauli, City Manager



City of Tacoma

Memorandum

DATE: October 15, 2020

TO: Shannon Wall, P.E., Planning & Engineering Division Manager, Tacoma Water
John Burk, P.E., Environmental Services Division Manager

FROM: Troy Saghafi, P.E., Planning & Engineering Professional Engineer, Tacoma Water
Jordan Ennis, P.E., Professional Engineer, Environmental Services

SUBJECT: Agreement for MRP 2019-50 / ES20-0001F
Stormwater & Wastewater Sewer Replacement Project (Various Areas): S Wright Ave,
N Carr St, N Karl Johan Ave, S 9th St, N 12th St, N 26th St, & S 53rd St

Our respective organizations believe a coordinated effort to replace the water, sanitary sewer, and storm infrastructure in conjunction with streets and sidewalk ramp improvements along S Wright Ave, N Karl Johan Ave, and S 9th St, under a single City of Tacoma contract, will result in efficiency and cost savings to all parties. Additionally, a joint project will minimize construction disturbance to adjacent businesses and the general public. The following summarizes the arrangements, assumptions, and action items necessary to move forward with this project:

- The project has been combined into a single Environmental Services construction contract. Environmental Services has the responsibility to lead and coordinate the compilation of contract plans and specifications, and to advertise and award the construction contract.
- The Department of Environmental Services will administer the construction contract. Environmental Services will charge Tacoma Water for the additional incremental contract administration time associated with Tacoma Water scope of work. Tacoma Water will compensate the Environmental Services Department in the amount of 3% of the lowest responsible bidders water base bid plus the shared item costs less sales tax. The estimated cost for the Tacoma Water portion of contract administration is \$25,367.75. This amount will be transferred to the Department of Environmental Services via journal entry at the completion of the project. This method is consistent with how construction management and overhead costs were addressed on previous projects.
- Tacoma Water will be responsible for shared street restoration, ADA sidewalk and ramp, and general contract costs as reflected in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water portion of the shared cost are based on actual bid pricing and are estimated to be approximately \$324,470.73.

As quantities on the Project Breakdown Estimate worksheet are contractor bid estimates, the Departmental actual bid quantities and costs will be separated by the same percentage as the per bid item estimate reflected on the Project Breakdown Estimate worksheet.

- Tacoma Water will provide the WBSE for charging water main construction costs to the Water Division fund. The Water Division WBSE for this project is as follows:

WTR-00604-01-08-03 Construction Payments to ES

- Tacoma Water will be responsible for the cost of water distribution main work, valves, hydrants, trench excavation, trench backfill and compaction to subgrade elevation, mobilization, traffic control, and other appurtenant items directly related to the installation of new water main. These



City of Tacoma

Memorandum

costs have been segregated within "Schedule D" of the contract bid proposal. Costs for the water distribution main is \$521,121.00.

- Tacoma Water will request authorization from the Public Utility Board to participate in the Environmental Services contract as soon as possible following the determination of the lowest responsible bidder.
- Tacoma Water will be included and fully involved in the initiation, discussion, and review of any addendums, revisions, change orders, or change of scope pertaining to the water main work. Any addendums, revisions, change orders, or change of scope pertaining to the water main scope of work or shared bid items shall be subject to the approval of Tacoma Water.
- Tacoma Water will perform all water main construction staking.
- The Department of Environmental Services will act as the overall contract construction inspection lead. Tacoma Water will be responsible for the daily inspection of the water main construction. Tacoma Water, Public Works and Environmental Services inspections will be a cooperative and coordinated effort.

We look forward to continuing our spirit of coordination and cooperation to accomplish this and future projects of mutual benefit to the citizens of Tacoma, the Department of Environmental Services, and Tacoma Water. Tacoma Water's total project contribution cost for this project is \$870,959.48. By signature, please indicate your approval to proceed with this joint project.

Shannon Wall

10/15/2020

Shannon Wall, P.E.
Planning & Engineering Division Manager

Date

John Burk

10/15/2020

John Burk, P.E.
Environmental Services Division Manager

Date

cc: Geff Yotter, Tacoma Water

File MRP 2019-50

APPENDIX A

Fill in green cells only, white cells will be autocalculated/filled

The item number needs to include three number digits; for example, R1 should be entered as R001

The Unit column includes a drop down menu choice - be sure to fill out the correct unit of measurement

The Tax column in the Water and Wastewater sections includes a drop down menu choice - be sure to select "Yes" for all taxable items

SHARED BY PERCENTAGE - EXCLUDING WATER														
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount	PW			SW			WW		
						%	\$	Tax?	%	\$	Tax?	%	\$	Tax?
7823	Mosquito	LS	1	\$100,000.00	\$100,000.00	25%	25000		53%	53000		22%	22000	
		AC	0	\$0.00	\$0.00	25%	0		53%	0		22%	0	
		AC	0	\$0.00	\$0.00	25%	0		53%	0		22%	0	
		AC	0	\$0.00	\$0.00	25%	0		53%	0		22%	0	
		AC	0	\$0.00	\$0.00	25%	0		53%	0		22%	0	
		AC	0	\$0.00	\$0.00	25%	0		53%	0		22%	0	
				Subtotal	\$100,000.00		\$25,000.00			\$53,000.00			\$22,000.00	

Notes: Items listed in this category should include any items that are usually split up by percentage but that Water references to pay separately in their own sub-item. These may include mobilization and traffic control, for example.

SHARED BY QUANTITY & NON-SHARED ITEMS (included in percent partnership calculations)															
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount	PW		SW		W		WW			
						QTY	\$	QTY	\$	QTY	\$	QTY	\$	Tax?	
R006	Uniformed Police Officer for Traffic Control	HR	40	\$100.00	\$4,000.00	13	\$1,333.33	13	\$1,333.33	13	\$1,233.33	YES	0	\$0.00	YES
R007	Removal and Reinstallation of Existing Fences	FA	1	\$1,500.00	\$1,500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$1,500.00	YES
R008	Roadway Excavation, Incl. Haul	CY	421	\$50.00	\$21,050.00	150	\$1,500.00	120	\$4,050.00	120	\$8,000.00	YES	90	\$1,500.00	YES

R009	Roadway Excavation of Contaminated Material, Ind. Haul	CY	315	\$90.00	\$28,350.00	120	\$10,800.00	60	\$6,405.00	120	\$10,800.00	YES	15	\$1,155.00	YES
R010	Gravel Borrow, Incl. Haul	CY	100	\$45.00	\$4,500.00	30	\$1,350.00	40	\$1,800.00	30	\$1,350.00	YES	0	\$0.00	YES
R011	Remove Trac, Class II	EA	2	\$1,000.00	\$2,000.00	1	\$666.67	1	\$666.67	1	\$666.67	YES	0	\$0.00	YES
R012	Stump Grinding, Class II	EA	2	\$1,000.00	\$2,000.00	1	\$666.67	1	\$666.67	1	\$666.67	YES	0	\$0.00	YES
R013	Remove Existing Pavement, Type II, Class A4	SY	2,715	\$12.50	\$33,937.50	810	\$10,125.00	430	\$5,375.00	810	\$10,125.00	YES	885	\$11,112.50	YES
R014	Remove Existing Pavement, Type II, Class C6	SY	4,370	\$12.50	\$54,625.00	1458	\$18,225.00	1358	\$16,975.00	1188	\$14,850.00	YES	110	\$1,375.00	YES
R015	Remove Existing Pavement, Type II, Class CA	SY	120	\$20.00	\$2,400.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	0	\$0.00	YES
R016	Remove Existing Pavement, Type II, Class H	SY	25	\$100.00	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	25	\$2,500.00	YES
R017	Remove Curb and Gutter	LF	2,000	\$4.00	\$8,000.00	662	\$2,648.00	937	\$3,748.00	962	\$3,848.00	YES	40	\$1,600.00	YES
R018	Crushed Surfacing Top Course	TN	500	\$80.00	\$40,000.00	100	\$8,000.00	80	\$6,400.00	140	\$11,200.00	YES	100	\$8,000.00	YES
R019	Recycled Conc. Aggregate	TN	1,240	\$60.00	\$74,400.00	138	\$8,300.00	803	\$48,180.00	118	\$7,080.00	YES	180	\$10,800.00	YES
R020	Fiber Reinforced HMA CL 1/2" PG 58H-22	TN	840	\$200.00	\$168,000.00	302	\$60,400.00	135	\$27,015.00	302	\$60,400.00	YES	100	\$20,000.00	YES
R021	HMA CL 1/2" PG 58H-22 for Pavement Patch	TN	195	\$200.00	\$39,000.00	0	\$0.00	180	\$36,000.00	0	\$0.00	YES	25	\$5,000.00	YES
R022	Temporary Pavement Patch	TN	50	\$200.00	\$10,000.00	17	\$3,333.33	17	\$3,333.33	17	\$3,333.33	YES	0	\$0.00	YES
R023	Placing Bituminous Pavement	SY	1,600	\$1.00	\$1,600.00	1490	\$1,490.00	620	\$619.00	1490	\$1,490.00	YES	0	\$0.00	YES
R024	Cement Conc. Pavement, 8-Inch Section	SY	225	\$75.00	\$16,875.00	7	\$525.00	122	\$9,150.00	7	\$525.00	YES	0	\$0.00	YES
R025	Cement Conc. Pavement, 8-Inch Section	SY	1,200	\$80.00	\$96,000.00	1163	\$93,040.00	1010	\$80,800.00	1010	\$80,800.00	YES	0	\$0.00	YES
R026	Adjust Existing Manhole, Furnish New Frame and Cover	EA	5	\$1,000.00	\$5,000.00	2	\$2,000.00	1	\$1,000.00	2	\$2,000.00	YES	0	\$0.00	YES
R027	Adjust Existing Catch Basin, Furnish New Frame and Grate	EA	3	\$1,000.00	\$3,000.00	1	\$1,000.00	0	\$0.00	1	\$1,000.00	YES	1	\$1,000.00	YES
R028	Adjust Existing Valve Chamber to Grade	EA	8	\$800.00	\$6,400.00	3	\$1,600.00	2	\$1,200.00	3	\$1,800.00	YES	0	\$0.00	YES
R029	Adjust Existing Utility to Grade	EA	2	\$1,000.00	\$2,000.00	1	\$1,000.00	0	\$0.00	1	\$1,000.00	YES	0	\$0.00	YES
R030	Inlet Protection	EA	61	\$90.00	\$5,490.00	18	\$1,620.00	13	\$1,170.00	17	\$1,530.00	YES	20	\$1,800.00	YES
R031	Street Cleaning	HR	60	\$220.00	\$13,200.00	15	\$1,320.00	15	\$1,320.00	15	\$1,320.00	YES	15	\$1,320.00	YES
R032	Plant Selection Type Quercus Friesii	EA	5	\$800.00	\$4,000.00	2	\$1,600.00	2	\$1,600.00	2	\$1,600.00	YES	0	\$0.00	YES
R033	Plant Selection Type Phytolacca Laxa	EA	4	\$600.00	\$2,400.00	1	\$600.00	1	\$600.00	1	\$600.00	YES	0	\$0.00	YES
R034	Plant Selection Type Juniperus Virginiana	EA	3	\$800.00	\$2,400.00	1	\$800.00	1	\$800.00	1	\$800.00	YES	0	\$0.00	YES
R035	Plant Selection Type Cornus Kousa	EA	7	\$900.00	\$6,300.00	2	\$1,800.00	2	\$1,800.00	2	\$1,800.00	YES	0	\$0.00	YES
R036	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R037	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R038	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R039	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R040	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R041	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R042	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R043	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R044	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R045	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R046	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R047	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R048	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R049	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R050	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R051	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R052	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R053	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R054	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R055	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R056	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R057	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R058	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R059	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R060	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R061	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R062	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R063	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R064	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R065	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R066	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R067	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R068	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R069	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R070	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R071	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R072	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R073	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R074	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R075	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R076	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R077	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R078	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R079	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R080	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R081	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R082	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R083	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R084	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R085	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R086	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R087	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R088	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R089	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R090	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R091	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.00	2	\$1,200.00	YES	0	\$0.00	YES
R092	Plant Selection Type Cornus Kousa	EA	5	\$600.00	\$3,000.00	2	\$1,200.00	2	\$1,200.0						

DocuSign Envelope ID: BC36C801-3BAB-4F97-85D7-54FEB4EE6BA6

WW083	Structure Excavation Class B	CF	1,910	\$89.00	\$171,990.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	10%	\$16,990.00	YES
WW084	Shoring or Extra Excavation Class B	BF	7,510	\$1.00	\$7,510.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	75%	\$7,510.00	YES
WW085	Remove Catch Basin	EA	1	\$900.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$900.00	YES
WW086	Manhole 48-in. Diam. Type 1	EA	0	\$4,000.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	0	\$0.00	YES
WW087	Manhole Additional Height 48-in. Diam. Type 1	LF	1	\$250.00	\$250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$250.00	YES
WW088	Catch Basin Type 1	EA	1	\$1,800.00	\$1,800.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$1,800.00	YES
WW089	Reconnect Existing Sewer Pipe 8-in. Diam. to New Structure	EA	4	\$250.00	\$1,000.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	4	\$1,000.00	YES
WW090	Plugging Existing Pipe	SA	11	\$250.00	\$2,750.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	11	\$2,750.00	YES
WW091	CDF for Pipe Abandonment	CF	20	\$200.00	\$4,000.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	20	\$4,000.00	YES
WW092	Underground Utility Relocating	EA	2	\$750.00	\$1,500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$1,500.00	YES
WW093	Temporary Sanitary Sewer Bypass Plan	LS	1	\$500.00	\$500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$500.00	YES
WW094	Temporary Sanitary Sewer Bypass	LS	1	\$1,000.00	\$1,000.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$1,000.00	YES
WW095	PVC C900 Sanitary Sewer Pipe 8-in. Diam.	LF	20	\$125.00	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	20	\$2,500.00	YES
WW096	PVC C900 Sanitary Sewer Pipe 8-in. Diam.	LF	25	\$125.00	\$3,125.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	25	\$3,125.00	YES
WW097	PVC Sanitary Sewer Pipe 6-in. Diam.	LF	290	\$125.00	\$36,250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	290	\$36,250.00	YES
WW098	PVC Sanitary Sewer Pipe 8-in. Diam.	LF	690	\$125.00	\$86,250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	690	\$86,250.00	YES
WW099	Ductile Iron Sewer Pipe 10-in. Diam.	LF	50	\$130.00	\$6,500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	50	\$6,500.00	YES
WW100	Removal and Replacement of Unsuitable Material	CF	790	\$1.00	\$790.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	790	\$790.00	YES
WW101	Removal and Replacement of Unsuitable Contaminated Material, Incl. Haul	CF	50	\$85.00	\$4,250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	50	\$4,250.00	YES
WW102	Testing Sewer Pipe	EA	710	\$2.00	\$1,420.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	710	\$1,420.00	YES
WW103	Sewer Cleanout	EA	20	\$350.00	\$7,000.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	20	\$7,000.00	YES
WW104	Removal and disposal of existing pavement, sidewalks, curbs, and gutters includes all thicknesses & combinations	BY	889	\$10.00	\$8,890.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	889	\$8,890.00	YES
WW105	Temporary HMA C11E PG58-22, 2-inch min depth, installed & removed	BY	650	\$15.00	\$9,750.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	650	\$9,750.00	YES
WW106	HMA C11E PG56-22 pavement for permanent trench patch	TH	3	\$300.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	3	\$900.00	YES
WW107	Concrete Curb, Pavement, C1, 4000	CF	29	\$100.00	\$2,900.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	29	\$2,900.00	YES
WW108	Crushed Surfacing Top Course for trench backfill per section 9-03.3(3) of the 2020 MSOT Standard Specifications	TH	2,286	\$33.30	\$76,133.80	0	\$0.00	0	\$0.00	0	\$0.00	YES	2,286	\$76,133.80	YES
WW109	Storm, Sanitary, and Side Sewer Restoration	EA	1	\$1.00	\$1.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$1.00	YES
WW110	Trench Excavation and Disposal	CF	1,114	\$36.00	\$40,104.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1,114	\$40,104.00	YES
WW111	Trench Shoring	LF	2,592	\$1.00	\$2,592.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2,592	\$2,592.00	YES
WW112	16-inch Ductile Iron Pipe, Push-On Joint, ANSIAWWA, C151, Special Class Thickness No. 52, to furnish, lay and test	LF	84	\$150.00	\$12,600.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	84	\$12,600.00	YES
WW113	12-inch Ductile Iron Pipe, Push-On Joint, ANSIAWWA, C151, Special Class Thickness No. 52, to furnish, lay and test	LF	51	\$140.00	\$7,140.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	51	\$7,140.00	YES
WW114	8-inch Ductile Iron Pipe, Push-On Joint, ANSIAWWA, C151, Special Class Thickness No. 52, to furnish, lay and test	LF	3	\$200.00	\$600.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	3	\$600.00	YES
WW115	8-inch Ductile Iron Pipe, Push-On Joint, ANSIAWWA, C151, Special Class Thickness No. 52, to furnish, lay and test	LF	2,415	\$70.00	\$169,050.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2,415	\$169,050.00	YES
WW116	12-inch x 6-inch Ductile Iron Reducer, 2-B, M.J., w/ anchor, installed	EA	1	\$170.00	\$170.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$170.00	YES
WW117	8-inch x 6-inch Ductile Iron Reducer, 2-B, M.J., w/ anchor, installed	EA	1	\$75.00	\$75.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$75.00	YES
WW118	16-inch x 8-inch Ductile Iron Tee, 3-B, M.J., installed	EA	2	\$550.00	\$1,100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$1,100.00	YES
WW119	12-inch Ductile Iron Tee, 3-B, M.J., installed	EA	1	\$390.00	\$390.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$390.00	YES
WW120	8-inch Ductile Iron Tee, 3-B, M.J., installed	EA	6	\$150.00	\$900.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	6	\$900.00	YES
WW121	16-inch Ductile Iron Tee, 3-B, M.J., installed	EA	2	\$400.00	\$800.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$800.00	YES
WW122	16-inch Ductile Iron Ell, M.J., 45° installed	EA	2	\$430.00	\$860.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$860.00	YES
WW123	12-inch Ductile Iron Ell, M.J., 45° installed	EA	4	\$200.00	\$800.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	4	\$800.00	YES
WW124	8-inch Ductile Iron Ell, M.J., 45° installed	EA	14	\$75.00	\$1,050.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	14	\$1,050.00	YES
WW125	6-inch Ductile Iron Ell, M.J., 45° installed	EA	2	\$10.00	\$20.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$20.00	YES
WW126	6-inch Ductile Iron Vertical Ell, M.J., 22 1/2° installed	EA	2	\$70.00	\$140.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	2	\$140.00	YES
WW127	12-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed	EA	1	\$200.00	\$200.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$200.00	YES
WW128	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	4	\$650.00	\$2,600.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	4	\$2,600.00	YES
WW129	12-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$400.00	\$400.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$400.00	YES
WW130	8-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$250.00	\$250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$250.00	YES
WW131	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	5	\$100.00	\$500.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	5	\$500.00	YES
WW132	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$400.00	\$400.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$400.00	YES
WW133	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$250.00	\$250.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$250.00	YES
WW134	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW135	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW136	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW137	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW138	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW139	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW140	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW141	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW142	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW143	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW144	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW145	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW146	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES
WW147	16-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed	EA	1	\$100.00	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	1	\$100.00	YES

DocuSign Envelope ID: BC36C801-3BA8-4F97-B5D7-54FEB4EEEBAB

W148	French Compaction Test (as directed by the Inspector)	EA	48	\$25.00	\$1,150.00	0	\$0.00	0	\$0.00	48	\$1,150.00	YES	0	\$0.00	YES
W150	16-inch B/F Valve, M.J., ANSI/WWA, C504 with C.I. Valve Box, installed	EA	4	\$3,100.00	\$12,400.00	0	\$0.00	0	\$0.00	4	\$12,400.00	YES	0	\$0.00	YES
W151	12-inch B/F Valve, M.J., ANSI/WWA, C504 with C.I. Valve Box, installed	EA	1	\$1,800.00	\$1,800.00	0	\$0.00	0	\$0.00	1	\$1,800.00	YES	0	\$0.00	YES
W162	8-inch Gate Valve, M.J., ANSI/WWA, C509/515, with C.I. Valve Box, installed	EA	10	\$700.00	\$7,000.00	0	\$0.00	0	\$0.00	10	\$7,000.00	YES	0	\$0.00	YES
W153	8-inch Hydrant, M.J., 4.5-ft. bury, with 4-inch Tascora Standard Threads & 8-inch Quick Coupling	EA	3	\$6,000.00	\$18,000.00	0	\$0.00	0	\$0.00	3	\$18,000.00	YES	0	\$0.00	YES
W154	8-inch Hydrant, M.J., 5.0-ft. bury, with 4-inch Tascora Standard Threads & 8-inch Quick Coupling	EA	1	\$6,500.00	\$6,500.00	0	\$0.00	0	\$0.00	1	\$6,500.00	YES	0	\$0.00	YES
W155	Street cleaning with Self-propelled pickup and vacuum street sweeper equipment	HR	33	\$220.00	\$7,260.00	0	\$0.00	0	\$0.00	33	\$7,260.00	YES	0	\$0.00	YES
W157	Trench Excavation & Disposal of Contaminated Materials, Incl. Haul to LRI	CY	295	\$75.00	\$22,125.00	0	\$0.00	0	\$0.00	295	\$22,125.00	YES	0	\$0.00	YES
		AC	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	0	\$0.00	YES
		AC	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	0	\$0.00	YES
		AC	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	YES	0	\$0.00	YES
				Subtotal	\$1,011,770.50		\$359,651.13		\$750,417.75		\$739,771.73			\$314,412.50	

WATER ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS

Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount		QTY	\$	Tax?
W197	Mobilization	LS	1	\$7,500.00	\$7,500.00		1.00	\$7,500.00	YES
W149	Test Holes	LS	1	\$5,000.00	\$5,000.00		1.00	\$5,000.00	YES
W156	Force Account	FA	1	\$80,000.00	\$80,000.00		1.00	\$80,000.00	YES
		AC	0	\$0.00	\$0.00		0.00	\$0.00	YES
		AC	0	\$0.00	\$0.00		0.00	\$0.00	YES
				Subtotal	\$72,500.00			\$72,500.00	

ITEMS CALCULATED BY PERCENTAGE

SHARED BY PERCENTAGE (ALL)

SHARED BY PERCENTAGE (EXCLUDING WATER)

ITEMS CALCULATED BY QUANTITY

SHARED BY QUANTITY AND NON SHARED ITEMS INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS

WATER ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS

TOTAL	\$401,311.13	\$837,717.75	\$846,691.73	\$351,112.50
-------	--------------	--------------	--------------	--------------

Percent Participation Calculation for Items that Include all Utilities

Public Works	\$359,651.13	17.00%
Stormwater	\$750,417.75	35.00%
Water	\$739,771.73	34.00%
Wastewater	\$314,412.50	15.00%
TOTAL	\$2,164,253.10	101.00%

*Note that these should add up to 100% but may be off by 1% due to rounding.

Percent Participation Calculation for Items that Exclude Water

Public Works	\$359,651.13	25.00%
Stormwater	\$750,417.75	53.00%
Wastewater	\$314,412.50	22.00%
TOTAL	\$1,424,481.38	100.00%

*Note that these should add up to 100% but may be off by 1% due to rounding.

Total Base Bid

Public Works	\$401,311.13	PWK-00438-28
Stormwater	\$837,717.75	ENV-00301-06
Water	\$846,691.73	WTR-00604-01-08
Wastewater	\$351,112.50	ENV-04022-08
\$2,435,733.10 **THIS AMOUNT SHOULD MATCH THE ACTUAL BASE BID PRICE		

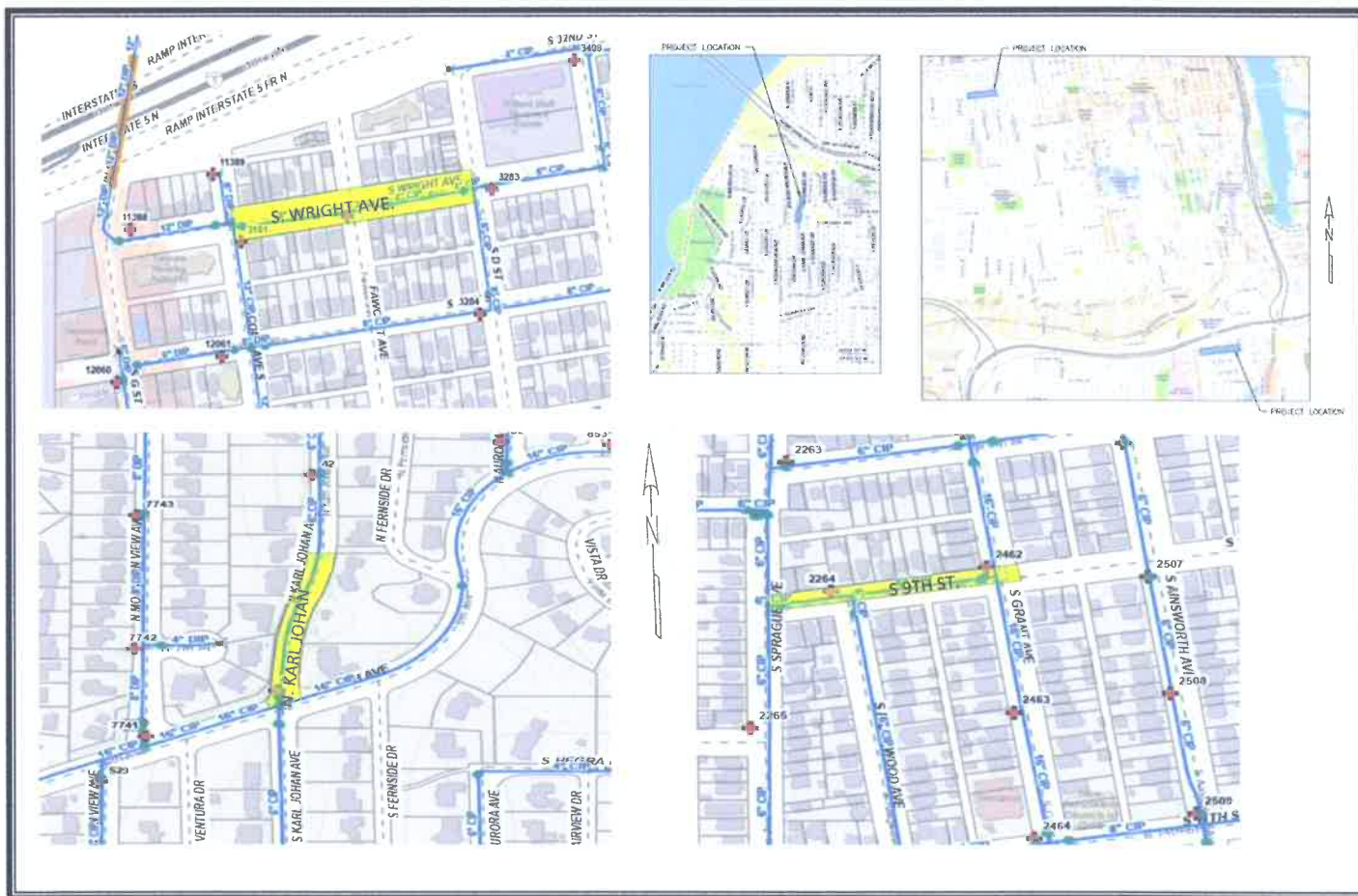
Sales Tax Calculation

DocuSign Envelope ID: BC36C801-3BAB-4F97-B5D7-54FEB4EEEBAB
Sales Tax Rate 10.20%

Total Taxable Public Works Items	\$0.00
Total Tax - Public Works	\$0.00
Total Taxable Stormwater Items	\$0.00
Total Tax - Stormwater	\$0.00
Total Taxable Water Items	\$845,591.73
Total Tax - Water	\$86,250.36
Total Taxable Wastewater Items	\$351,112.50
Total Tax - Wastewater	\$35,813.48
Total Sales Tax	\$122,063.83

General Practice for Sales Tax:

Wastewater & Water surface restoration items are non-taxable ONLY in areas where there is a partnership with Public Works to also build roadways or where ES is building roadways (previous projects).
Wastewater and Water surface restoration items are taxable IF this project will not build a roadway regardless of whether it is a partnership project (ie, only replacing C&G, sidewalk, driveways, minor roadway patching, etc.)
Work occurring on private property or real property (not in right-of-way) is taxed regardless of which utility pays for the work
Items in the Roadway Schedule that are not roadway related items (such as mobilization, SPCC Plan, Project Red Lines, etc.) ARE taxable for Wastewater and Water utilities



Project Extents – SW REGIONS